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Title of the Invention: Method for Holding Sample and Aligner

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Applicant: Nikon Corporation

Extract:

See from line 5 in the 25th column to line 10 in the 31st column and  
Figs. 33 to 48 in US Patent No. 6888621.

# PATENT ABSTRACTS OF JAPAN

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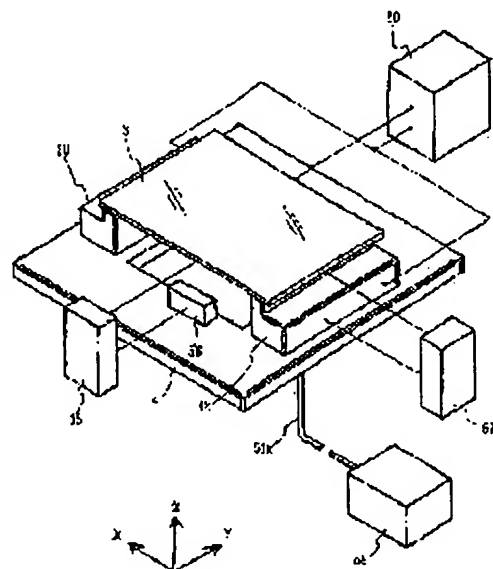
(72)Inventor : NARUSHIMA HIROAKI

## (54) METHOD FOR HOLDING SAMPLE AND ALIGNER

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To optimally hold a sample on a flat plate against a sample table by sucking the sample by vacuum at the same time when it is sucked electrostatically to the sample table.

**SOLUTION:** When a reticle 3 is placed on reticle holders 30 and 32, a reticle stage control system controls a pressure control part 58 and a voltage control part 60, so that the reticle 3 is sucked to the holders 30 and 32 by vacuum and sucked thereto electrostatically at the same time. That is, a compressor in the pressure control part 58 sucks an air between the reticle 3 and the reticle holders 30 and 32 through suction holes of the reticle holders 30 and 32. In addition, the voltage control part 60 applies a specified voltage to a chrome layer and a dielectric layer so as to generate a static electricity therebetween, thereby allowing the reticle 3 to be sucked to the reticle holders 30 and 32 electrostatically. Thus, since the reticle 3 is held not only by vacuum suction but also by electrostatic suction, a holding force for the holders 30 and 32 can be increased.



## LEGAL STATUS

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